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Sequence Listing was accepted with existing errors.
See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Durreshwar Anjum
Timestamp: Wed May 16 15:12:21 EDT 2007

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Application No: 10553491 Version No: 1.0

Input Set:

Output Set:

Started: 2007-05-16 12:32:14.849
Finished: 2007-05-16 12:32:28.599
Elapsed: 0 hr(s) 0 min(s) 13 sec(s) 750 ms
Total Warnings: 108
Total Errors: 65
No. of SeqIDs Defined: 117
Actual SeqID Count: 117

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
W 213	Artificial or Unknown found in <213> in SEQ ID (22)
W 213	Artificial or Unknown found in <213> in SEQ ID (23)
W 213	Artificial or Unknown found in <213> in SEQ ID (24)
W 213	Artificial or Unknown found in <213> in SEQ ID (25)
W 213	Artificial or Unknown found in <213> in SEQ ID (26)
W 213	Artificial or Unknown found in <213> in SEQ ID (27)

Input Set:

Output Set:

Started: 2007-05-16 12:32:14.849
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Total Warnings: 108
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Error code	Error Description
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E 257	This error has occurred more than 20 times, will not be displayed

Sequence Listing

<110> Heidi Jenii Ackerly Wallweber et al.

<120> Compositions and Methods Relating to STOP-1

<130> P5104R1

<140> 10553491

<141> 2007-05-16

<150> US 10/553,491

<151> 2005-10-14

<150> PCT/US2004/011793

<151> 2004-04-16

<150> US 60/463,656

<151> 2003-04-16

<160> 117

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<211> 1257

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<213> Homo sapiens

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cccccgccgc ctcccccag cggctccgcg gcctcctgct gctcctgctg 200

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aaaggcgca gtcggccaga gggaggttgtt ggacctgtat aatggaatgt 300

gcttacaagg gccagcagga gtgcctggc gagacgggag ccctggggcc 350

aatgttattc cgggtacacc tggatcca ggtcggtatg gattcaaagg 400

aaaaaaaggaa gaatgtctga gggaaagctt tgaggagtcc tggacaccca 450

actacaagca gtgtcatgg agttcattga attatggcat agatctggg 500

aaaattgcgg agtgtacatt tacaaagatg cgttcaaata gtgctctaag 550

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 <212> PRT
 <213> Homo sapiens

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20						25							30

Ser	Glu	Ile	Pro	Lys	Gly	Lys	Gln	Lys	Ala	Gln	Leu	Arg	Gln	Arg
35						40							45	

Glu	Val	Val	Asp	Leu	Tyr	Asn	Gly	Met	Cys	Leu	Gln	Gly	Pro	Ala
50						55							60	

Gly	Val	Pro	Gly	Arg	Asp	Gly	Ser	Pro	Gly	Ala	Asn	Val	Ile	Pro
65						70							75	

Gly	Thr	Pro	Gly	Ile	Pro	Gly	Arg	Asp	Gly	Phe	Lys	Gly	Glu	Lys
80						85							90	

Gly	Glu	Cys	Leu	Arg	Glu	Ser	Phe	Glu	Glu	Ser	Trp	Thr	Pro	Asn
95						100							105	

Tyr	Lys	Gln	Cys	Ser	Trp	Ser	Ser	Leu	Asn	Tyr	Gly	Ile	Asp	Leu
110						115							120	

Gly	Lys	Ile	Ala	Glu	Cys	Thr	Phe	Thr	Lys	Met	Arg	Ser	Asn	Ser
125						130							135	

Ala Leu Arg Val Leu Phe Ser Gly Ser Leu Arg Leu Lys Cys Arg
140 145 150

Asn Ala Cys Cys Gln Arg Trp Tyr Phe Thr Phe Asn Gly Ala Glu
155 160 165

Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile Ile Tyr Leu Asp Gln
170 175 180

Gly Ser Pro Glu Met Asn Ser Thr Ile Asn Ile His Arg Thr Ser
185 190 195

Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly Leu Val Asp
200 205 210

Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys Gly Asp
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Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile Ile Glu Glu
230 235 240

Leu Pro Lys

<210> 3
<211> 243
<212> PRT
<213> Homo sapiens

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20 25 30

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35 40 45

Glu Val Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala
50 55 60

Gly Val Pro Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro
65 70 75

Gly Thr Pro Gly Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys
80 85 90

Gly Glu Cys Leu Arg Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn
95 100 105

Tyr Lys Gln Cys Ser Trp Ser Ser Leu Asn Tyr Gly Ile Asp Leu
110 115 120

Gly Lys Ile Ala Glu Cys Thr Phe Thr Lys Met Arg Ser Asn Ser
125 130 135

Ala Leu Arg Val Leu Phe Ser Gly Ser Leu Arg Leu Lys Cys Arg
140 145 150

Asn Ala Cys Cys Gln Arg Trp Tyr Phe Thr Phe Asn Gly Ala Glu
155 160 165

Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile Ile Tyr Leu Asp Gln
170 175 180

Gly Ser Pro Glu Met Asn Ser Thr Ile Asn Ile His Arg Thr Ser
185 190 195

Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly Leu Val Asp
200 205 210

Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys Gly Asp
215 220 225

Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile Ile Glu Glu
230 235 240

Leu Pro Lys

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<212> PRT
<213> Mus musculus

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Ser Ala Ser Glu Asn Pro Lys Val Lys Gln Lys Ala Leu Ile Arg
35 40 45

Gln Arg Glu Val Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly
50 55 60

Pro Ala Gly Val Pro Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly
65 70 75

Ile Pro Gly Thr Pro Gly Ile Pro Gly Arg Asp Gly Phe Lys Gly
80 85 90

Glu Lys Gly Glu Cys Leu Arg Glu Ser Phe Glu Glu Ser Trp Thr
95 100 105

Pro Asn Tyr Lys Gln Cys Ser Trp Ser Ser Leu Asn Tyr Gly Ile
110 115 120

Asp Leu Gly Lys Ile Ala Glu Cys Thr Phe Thr Lys Met Arg Ser
125 130 135

Asn Ser Ala Leu Arg Val Leu Phe Ser Gly Ser Leu Arg Leu Lys
140 145 150

Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe Thr Phe Asn Gly
155 160 165

Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile Ile Tyr Leu
170 175 180

Asp Gln Gly Ser Pro Glu Leu Asn Ser Thr Ile Asn Ile His Arg
185 190 195

Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly Leu
200 205 210

Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys
215 220 225

Gly Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile Ile
230 235 240

Glu Glu Leu Pro Lys
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<212> PRT
<213> Oryzias latipes

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Lys Asp Pro Asp Ala Asp Lys Phe Gly Ser Cys Leu Gln Gly Pro
35 40 45

Ala Gly Thr Pro Gly Arg Asp Gly Asn Pro Gly Ala Asn Gly Ile
50 55 60

Pro Gly Thr Pro Gly Ile Pro Gly Arg Asp Gly Leu Lys Gly Glu
65 70 75

Lys Gly Glu Cys Val Ser Glu Val Phe Glu Glu Pro Trp Lys Pro
80 85 90

Asn Tyr Lys Gln Cys Ala Trp Asn Ser Leu Asn Tyr Gly Ile Asp
95 100 105

Leu Gly Lys Ile Ala Asp Cys Thr Phe Thr Lys Leu Arg Ser Glu
110 115 120

Ser Ala Leu Arg Val Leu Phe Thr Gly Ser Leu Arg Leu Lys Cys
125 130 135

Lys	Glu	Ala	Cys	Cys	Gln	Arg	Trp	Tyr	Phe	Thr	Phe	Asp	Gly	Ala
140									145					150
Glu	Cys	Thr	Gly	Pro	Leu	Pro	Val	Glu	Ser	Ile	Ile	Tyr	Leu	Asn
155									160					165
Gln	Gly	Ser	Pro	Glu	Leu	Asn	Ser	Thr	Ile	Asn	Ile	His	Arg	Thr
170								175						180
Ser	Ser	Val	Glu	Gly	Leu	Cys	Glu	Gly	Ile	Lys	Ala	Gly	Leu	Val
185								190						195
Asp	Val	Ala	Leu	Trp	Val	Gly	Thr	Cys	Ala	Asp	Tyr	Pro	Arg	Gly
200								205						210
Asp	Ala	Ser	Thr	Gly	Trp	Asn	Ser	Val	Ser	Arg	Ile	Ile	Ile	Glu
215								220						225
Glu	Leu	Pro	Lys											

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<213> Danio rerio

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Leu	Pro	Phe	Cys	Val	Thr	Gln	Lys	Ala	Lys	Glu	Arg	Ile	Pro	Arg
20								25						30
Gln	Arg	Asp	Ala	Glu	Phe	Thr	Asp	Lys	Tyr	Gln	Ala	Cys	Val	Gln
35								40						45
Gly	Val	Pro	Gly	Val	Gln	Gly	Arg	Asp	Gly	Asn	Pro	Gly	Ile	Asn
50								55						60
Gly	Ile	Pro	Gly	Thr	Pro	Gly	Ile	Pro	Gly	Arg	Asp	Gly	Leu	Lys
65								70						75
Gly	Glu	Lys	Gly	Glu	Cys	Val	Ser	Glu	Arg	Phe	Glu	Glu	Pro	Trp
80								85						90
Lys	Pro	Asn	Phe	Lys	Gln	Cys	Ala	Trp	Asn	Ser	Leu	Asn	Tyr	Gly
95								100						105
Ile	Asp	Leu	Gly	Lys	Ile	Ala	Glu	Cys	Thr	Phe	Thr	Lys	Gln	Arg
110								115						120
Ser	Asp	Ser	Ala	Leu	Arg	Val	Leu	Phe	Ser	Gly	Ser	Leu	Arg	Leu
125								130						135
Lys	Cys	Lys	Thr	Ala	Cys	Cys	Gln	Arg	Trp	Tyr	Phe	Thr	Phe	Asn
140								145						150

Gly Ala Glu Cys Thr Gly Pro Leu Pro Ile Glu Ser Ile Val Tyr
 155 160 165

 Leu Asp Gln Gly Ser Pro Glu Leu Asn Ser Thr Ile Asn Ile His
 170 175 180

 Arg Thr Ser Thr Val Glu Gly Leu Cys Glu Gly Ile His Ala Gly
 185 190 195

 Leu Val Asp Val Gly Ile Trp Val Gly Thr Cys Ala Asp Tyr Pro
 200 205 210

 Arg Gly Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Val Ile
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 Ile Glu Glu Leu Pro Lys
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 <212> PRT
 <213> Gallus gallus

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 Gly Pro Ser Gly Val Pro Gly Arg Asp Gly Asn Pro Gly Thr Asn
 20 25 30

 Gly Ile Pro Gly Thr Pro Gly Ile Pro Gly Arg Asp Gly Pro Lys
 35 40 45

 Gly Glu Lys Gly Glu Cys Leu Arg Glu Ser Ile Glu Glu Ser Trp
 50 55 60

 Thr Pro Asn Phe Lys Gln Cys Ser Trp Ser Ala Leu Asn Tyr Gly
 65 70 75

 Ile Asp Leu Gly Lys Ile Ala Glu Cys Thr Phe Thr Lys Met Arg
 80 85 90

 Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly Ser Leu Arg Leu
 95 100 105

 Lys Cys Arg Ser Ala Cys Cys Gln Arg Trp Tyr Phe Thr Phe Asn
 110 115 120

 Gly Ala Glu Cys Ala Gly Pro Leu Pro Ile Glu Ala Ile Ile Tyr
 125 130 135

 Leu Asp Gln Gly Ser Pro Glu Leu Asn Ser Thr Ile Asn Ile His
 140 145 150

 Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Asn Ala Gly
 155 160 165

Leu Val Asp Ile Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro
170 175 180

Arg Gly Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile
185 190 195

Ile Glu Glu Leu Pro Lys
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Cys Ala Arg Val Gly Gly Leu Lys Leu Leu Phe Asp Tyr
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Gly Tyr Ile Ser Pro Pro Ser Gly Ala Thr Tyr
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gagatcccc aaaaaaaaggca aaaggcgcaag ctccggcaga gggagggtgg 150